2013 Montana Government IT Conference

GIS Sessions

Wednesday December 11, 2013

GIS: "MAGIP Benefits for the GIS and IT Community in Montana"

Presenters: **Allen Armstrong – MAGIP President, Bozeman, MT & Meghan Burns – MAGIP Vice-President, Helena, MT**

The Montana Association of Geographic Information Professionals (MAGIP) provides training and professional development to GIS and IT professionals throughout Montana. MAGIP also is an influential group that can impact many state and local government actions through special interest groups, best practices, guidelines and policy decisions. MAGIP will present their most current work plan for the upcoming year and gather input from participants for additional future consideration by the Board of Directors.

GIS: "Location Analytics in State Government"

Presenters: **Nathalie Smith – ESRI Regional Manager, Olympia, WA**

Location is fundamental to all aspects of business and is critical for State Government. Location Analytics is the integration of maps and geographic context to existing business systems and processes to produce greater analytic insight, better decisions, and improved outcomes. Location Analytics is how the State can leverage its IT investments and achieve better understanding of State run programs with discovering new patterns in the data, achieving greater insights, improving decision-making and ultimately achieving better outcomes. This presentation will highlight how location analytics takes advantage of the State's investment in GIS to increase the value of other data currently held in various Business Intelligence, ERP, or CRM systems via an enterprise-wide accessible and scalable platform.

GIS: "Administering ArcGIS Server 10.2 using the Administrator API: Simple Scripts That Can Make Your Life Easier"

Presenter: **Scott Story – GIS Database Administrator, Montana State Library, Helena, MT**

The Montana State Library will present their experience with the 10.2 full release of the ArcGIS platform and how it includes enhanced functionality, stability improvements, and better support for connectivity, security, and enterprise readiness. With the introduction of new extensions to ArcGIS for Server there is now an increased set of scripts and tools for supporting ArcGIS clients.

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GIS: "K-12 GIS Opportunities for Teachers and Students"

Presenters: **Allen Armstrong – Gallatin County GIS, Bozeman, MT & Carrie Shockley – Bozeman Water/Sewer GIS Specialist, Bozeman, MT**

The Montana Association of Geographic Information Professionals (MAGIP), provides an avenue to connect highly trained GIS, IT and Development professionals with interested K-8 educators, High School classrooms, 4-H student projects, FFA young adults, and University Service Learning Programs to train and offer real-world project experience for future professionals in this industry. If you believe that working with K-12 students will confine your mapping some of the most mundane features on the earth, you will be surprised. The projects these students can come up with will truly surprise the seasoned professional. Probably some of the best mobile application users out there are our K-12 students. MAGIP is now offering teacher Renewal Units for conferences/workshops attendance to train educators on web-based mapping, mobile applications and geographic science. MAGIP provides educational trunks to equip classes with field-ready GPS units for navigation, mapping and building GIS layers. Successful projects and lessons learned from K-12 projects will be discusses in this presentation.

GIS: "Tapping Into the Power of ArcGIS Online Through the State's Enterprise Subscription"

Presenter: **Erin Fashoway – GIS Analyst, Montana State Library, Helena, MT**

The ArcGIS Online Community is growing rapidly. Access to online web mapping is becoming easier every day. This presentation will focus on how the use of ArcGIS Online has evolved at the Montana State Library. We will discuss how we manage and maintain our accounts; how to use existing services; how to create new services; how to create new services within ArcGIS Online; and how to leverage the investment in Montana's Enterprise Subscription for web mapping applications.

GIS: "Mobile Application Development at the State Level"

Presenter: **Miles Wacker – MDOT Geospatial Systems Analyst, Helena, MT**

Montana's Department of Transportation has built a successful MDTMobile cross platform application that provides traveler information focused on the State of Montana. For agencies looking to develop similar applications for their customers, there is a definite learning curve and protocol to follow within an organizations structure. Governments are changing to meet the needs of their customers and provide a level of information access users are accustomed to from private business. This presentation will touch on the changes in technology to be aware of and the lessons learned from developing and publishing apps.

Thursday December 12, 2013

GIS: "Python Special Interest Group Meeting"

Presenter: **Members and Interested Members of Special Interest Group**

If you are user of Python or connected with a group supporting users of Python, we encourage you to attend this MAGIP-Supported new Special Interest Group that is developing around the use and development of the Python language. MAGIP offers a forum for SIG members to share ideas, collaborate on projects, exchange technology and develop standards and procedures among their special interest. A dedicated place and presence under the MAGIP web site for posting news and events as well as membership contact for all members to collaborate will be established. MAGIP SIGs have access to the MAGIP board in an advisory capacity that may affect policy, standards, work plans, etc.